

JANUARY 2005 04·01·05

PA 1247027

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APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE UNDER 35 USC 111.**

APPLICATION NUMBER: 60/517,032**FILING DATE: November 04, 2003**

**By Authority of the
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PTO/SB/18 (5-03)

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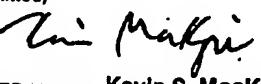
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PROVISIONAL APPLICATION FOR PATENT COVER SHEET

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INVENTOR(S)				
Given Name (first and middle [if any])	Family Name or Surname	Residence (City and either State or Foreign Country)		
Robert B.	Mooney	Farmington Hills, MI		
<input type="checkbox"/> Additional inventors are being named on the _____ separately numbered sheets attached hereto				
TITLE OF THE INVENTION (280 characters max)				
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Direct all correspondence to:				
<input checked="" type="checkbox"/> Customer Number 28886 → Place Customer Number Bar Code Label here				
OR				
<input checked="" type="checkbox"/> Type Customer Number here				
<input checked="" type="checkbox"/> Firm or Individual Name	Kevin S. MacKenzie			
Address	Clark Hill PLC			
Address	500 Woodward Avenue, Suite 3500			
City	State	MI		
Country	ZIP	48226-3435		
Telephone				
Fax				
ENCLOSED APPLICATION PARTS (check all that apply)				
<input checked="" type="checkbox"/> Specification	Number of Pages	3	<input type="checkbox"/> CD(s), Number	
<input checked="" type="checkbox"/> Drawing(s)	Number of Sheets	10	<input type="checkbox"/> Other (specify)	
<input type="checkbox"/> Application Data Sheet. See 37 CFR 1.76				
METHOD OF PAYMENT OF FILING FEES FOR THIS PROVISIONAL APPLICATION FOR PATENT (check one)				
<input type="checkbox"/>	A check or money order is enclosed to cover the filing fees			FILING FEE AMOUNT (\$) 50-1759 \$160.00
<input checked="" type="checkbox"/>	The Director is hereby authorized to charge filing fees or credit any overpayment to Deposit Account Number			
<input type="checkbox"/>	Payment by credit card. Form PTO-2038 is attached.			
The invention was made by an agency of the United States Government or under a contract with an agency of the United States Government.				
<input checked="" type="checkbox"/> No.				
<input type="checkbox"/> Yes, the name of the U.S. Government agency and the Government contract number are: _____				

Respectfully submitted,

SIGNATURE 

TYPED or PRINTED NAME Kevin S. MacKenzie

TELEPHONE 313-965-8300

Date 11/04/2003

REGISTRATION NO.

45,639

(if appropriate)

Docket Number:

19339-095692

USE ONLY FOR FILING A PROVISIONAL APPLICATION FOR PATENT

This collection of information is required by 37 CFR 1.51. The information is used by the public to file (and by the PTO to process) a provisional application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 8 hours to complete, including gathering, preparing, and submitting the complete provisional application to the PTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Provisional Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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By: 

Attorney Docket No : 19339-095692

INVITER

Panoramic Retractable Top
for Legal Office
10/27/03

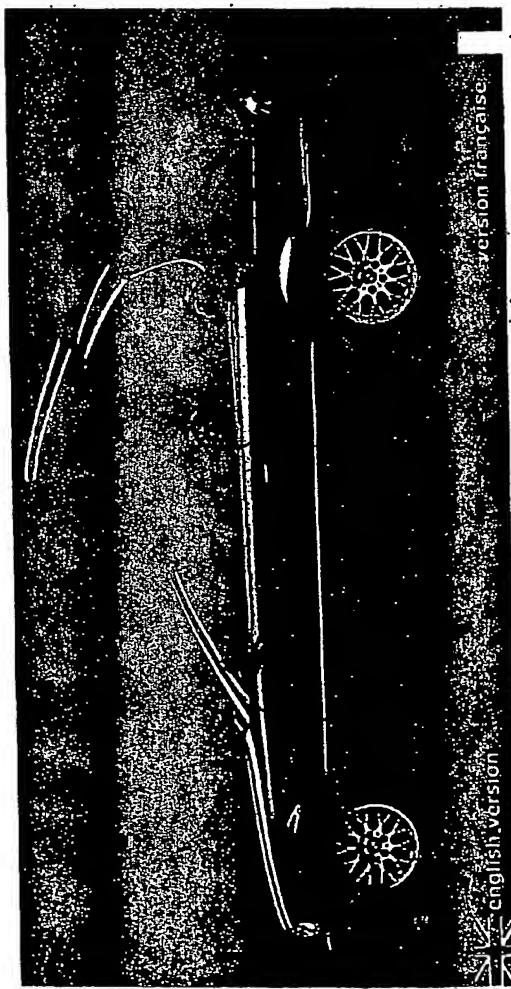
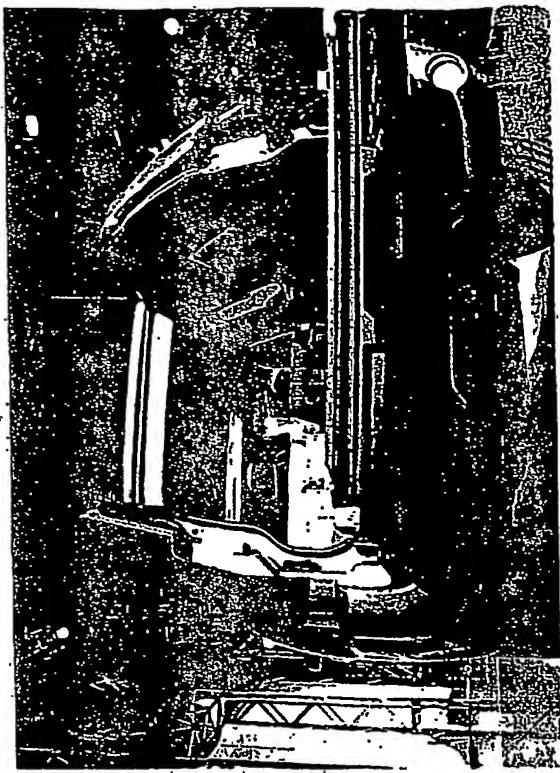
Shaping the inner dimension

- First to market with Sunroof function AND full open air retraction for Sedan (4 door) vehicles
- Minimal panel packaging / storage size into trunk during and after retraction due to unique kinematics
- All glass modular roof
 - Laminated glass for reduced NVH
 - Glass laminations to provide variable optic effects
- Full size back seat
 - No infringement into rear seating
- Decklid opening not required during panel kinematics
- Security of a hard top, with sunroof & full open air options
- Motor and actuator driven system
- Maintains base car performance requirements
- Torsional; Roof crush; Side impact; Head impact, etc.

INTER

Sliding Roof

Retractable



Spec No. 64: Standardized Lark Station Wagon

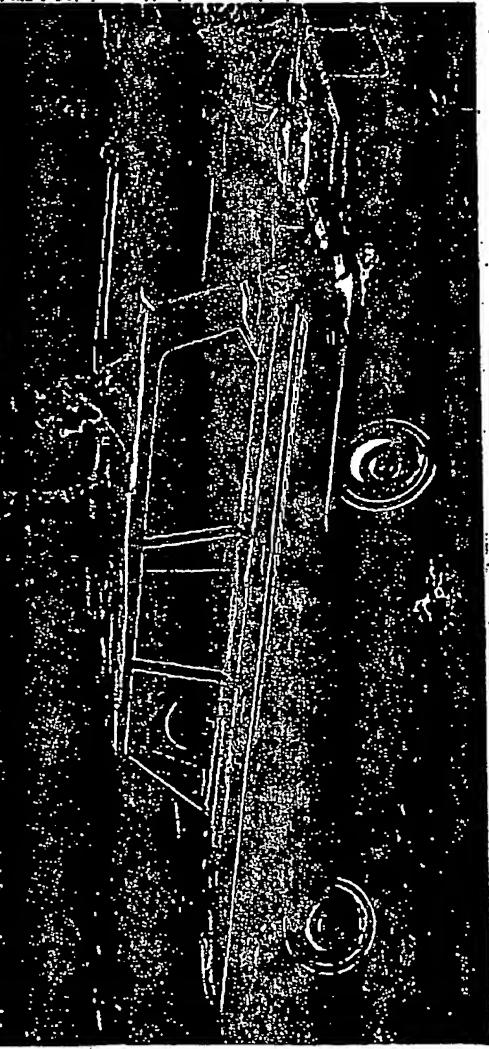
the Lark Station Wagon for

1962. It was now called

Wagoneer and featured a
retractable sliding roof above
the cargo compartment. This
enhanced practicability and
Studebaker advertised it as "a
family car, a functional utility
vehicle and a fine Elled

Entertainer. The tailgate was

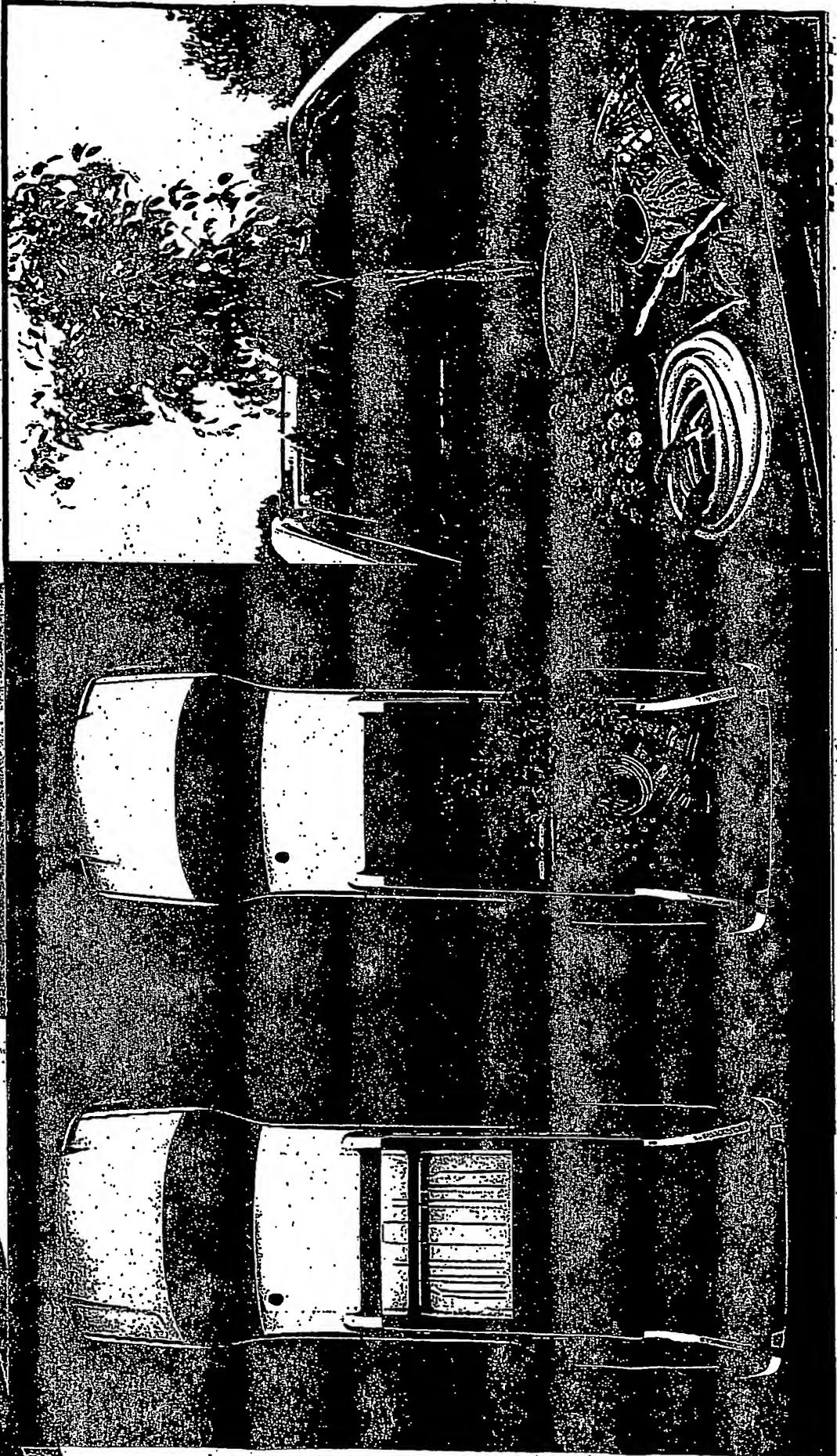
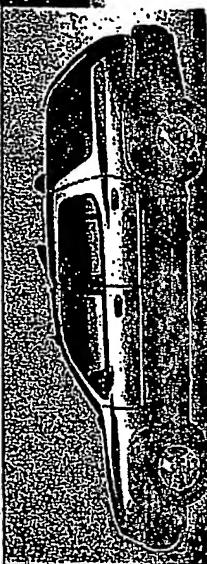
hydraulically assisted and the
tailgate window was
fully automatic.



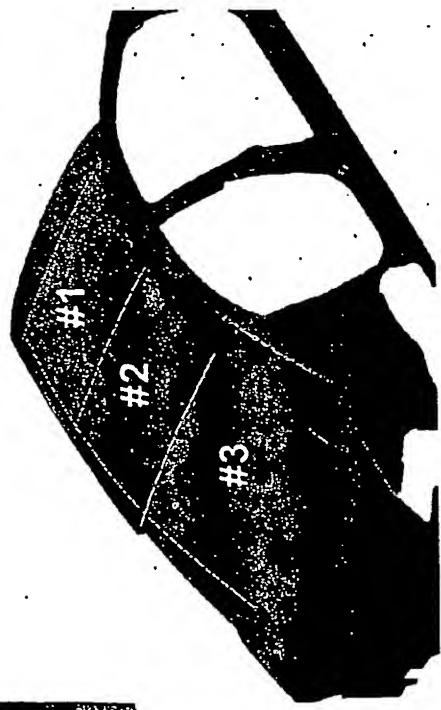
"What was old is
new again"

INTICEN

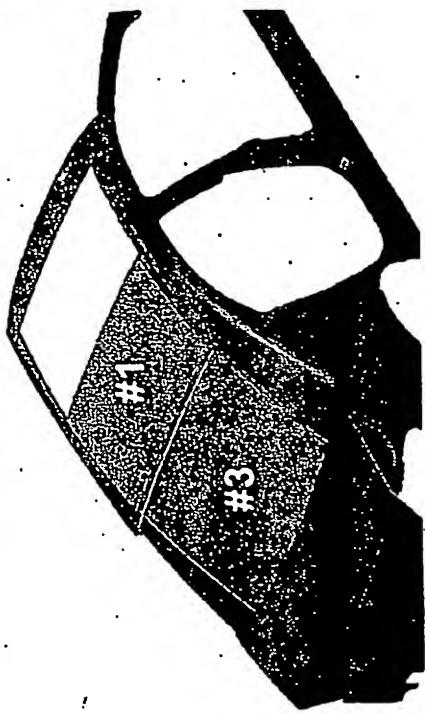
2004 GMC Envoy XUV



Intier panel movement stages



1) All panels closed



2) Sunroof function - #1 slides over #2

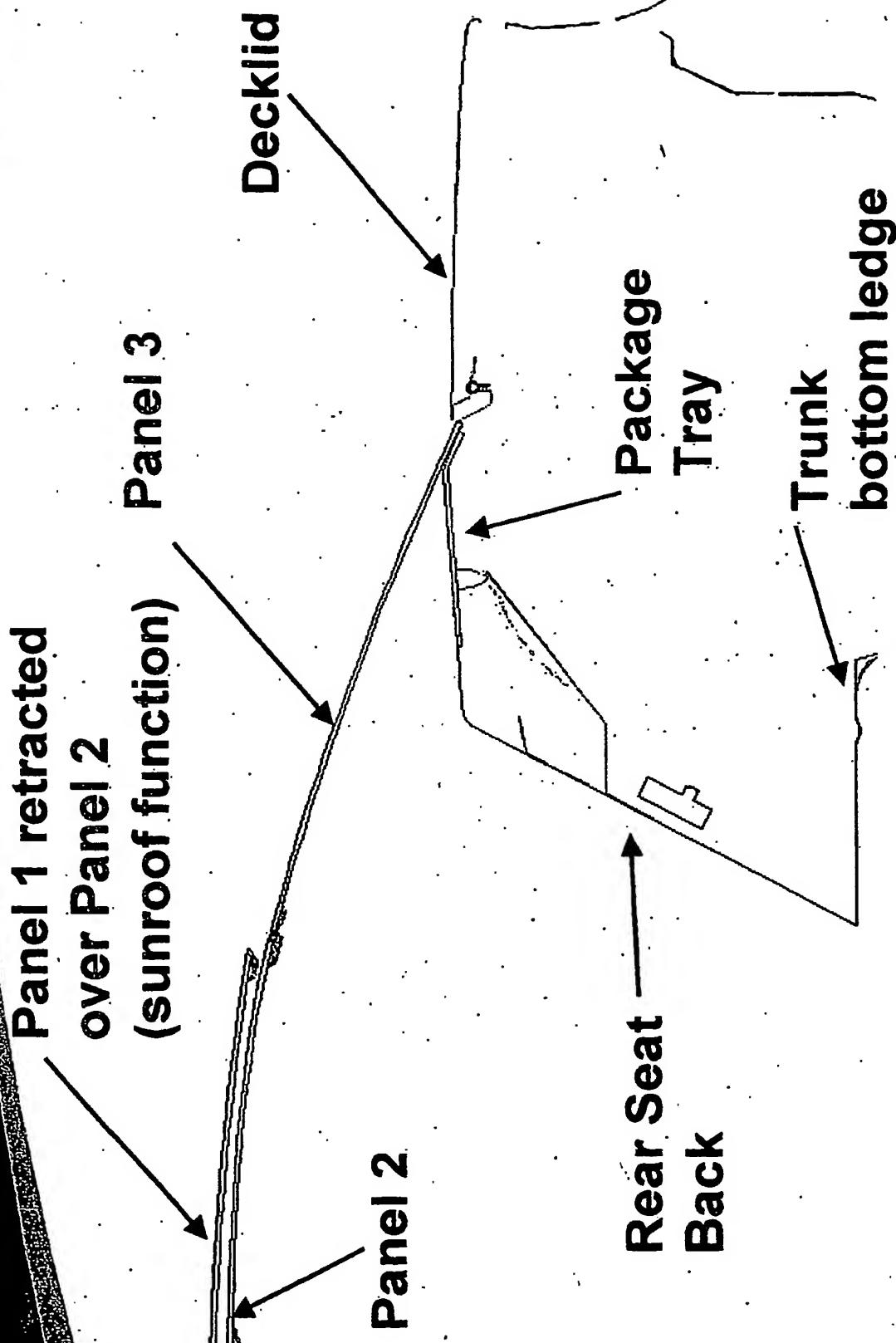


3) #3 unlocks and rotates out
and then #1 & 2 slide under #3

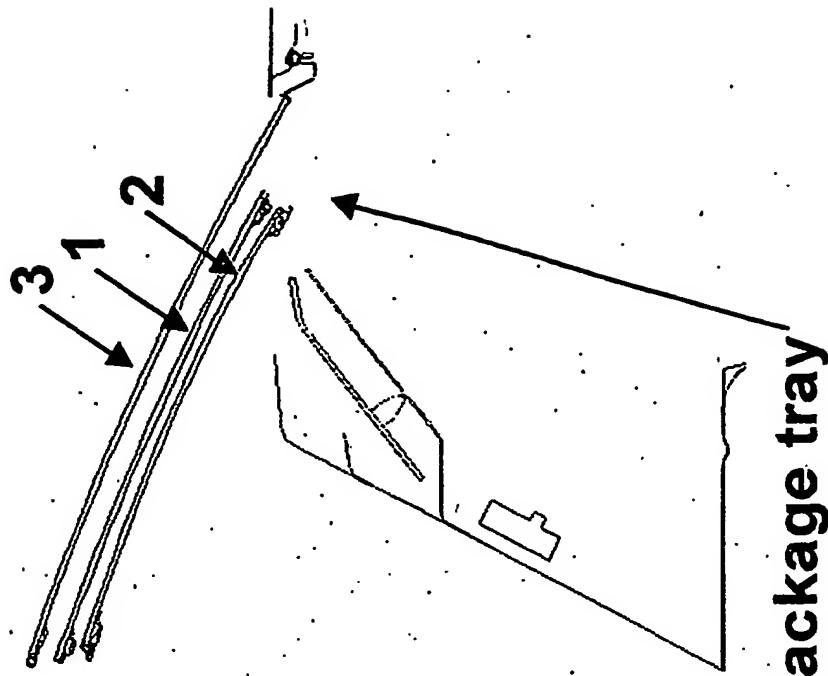
4) Package tray swings up and
then #1 & 2 & 3 all rotate into trunk *INTIER*
and package tray returns

INTICER

Centerline Section

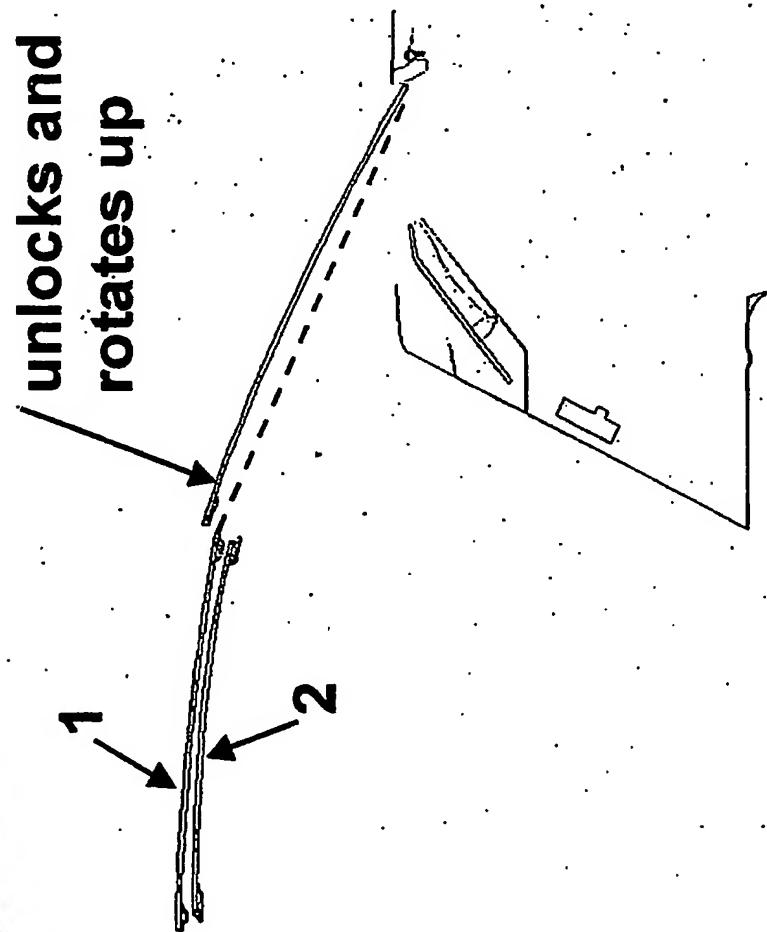


**Panels 1&2
slide under
Panel 3**



INTIGR
**Package tray
rotates down**

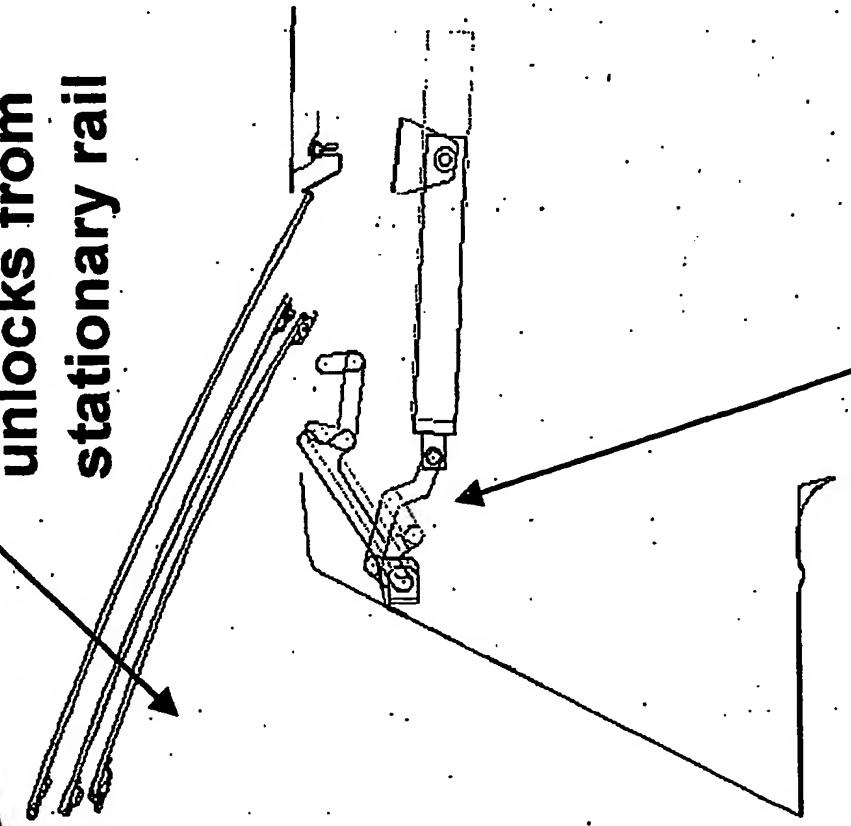
**Panel 3
unlocks and
rotates up**



INTER

**3 panels rotate
together**

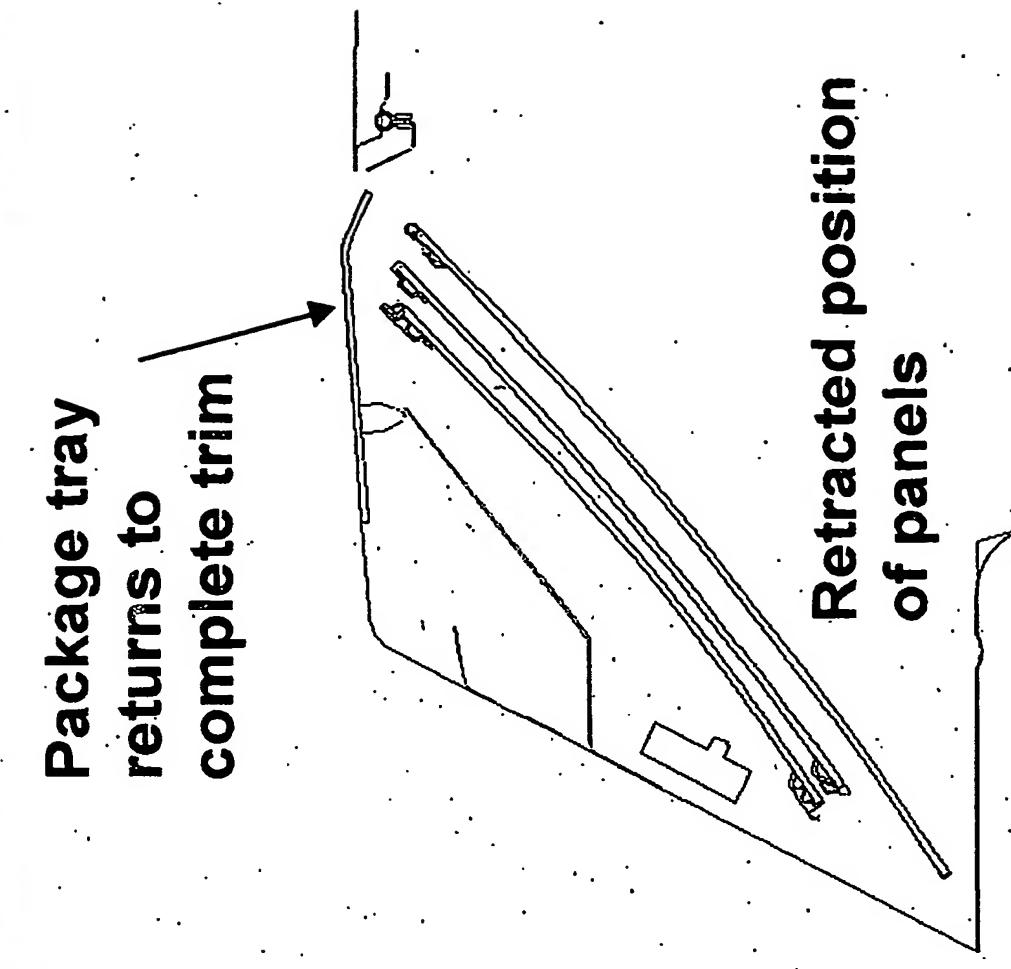
**Rear rail
unlocks from
stationary rail**



**Top retractable
mechanism system**

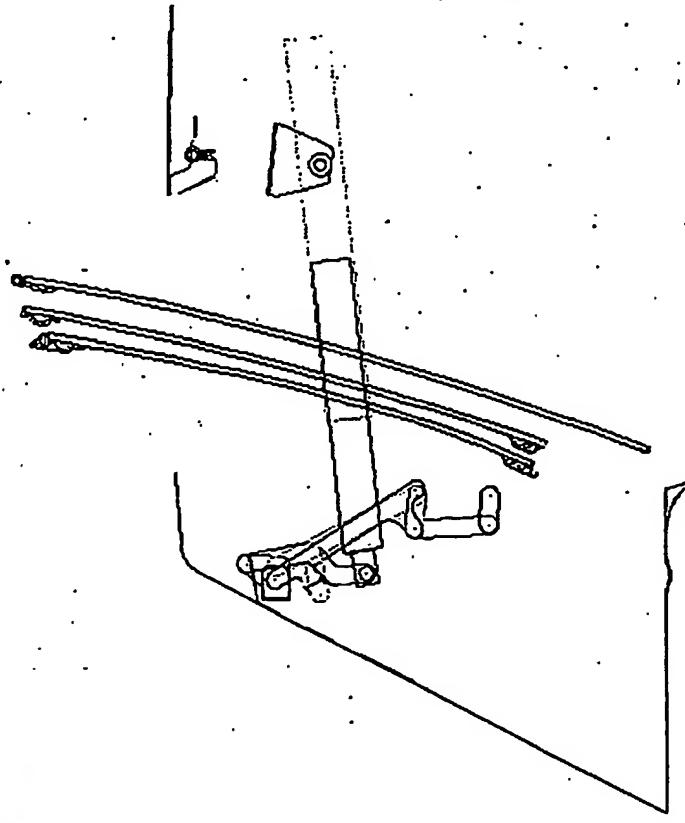
INT'L AIRLINES OF CANADA 3/Details

Package tray
returns to
complete trim



Retracted position
of panels

Retractable mechanism
rotate panels with very
limited intrusion into trunk



INT'L

Retractable Hard Top Systems

No integrated sunroof function

Decklid kinematics required

Limited or no trunk space

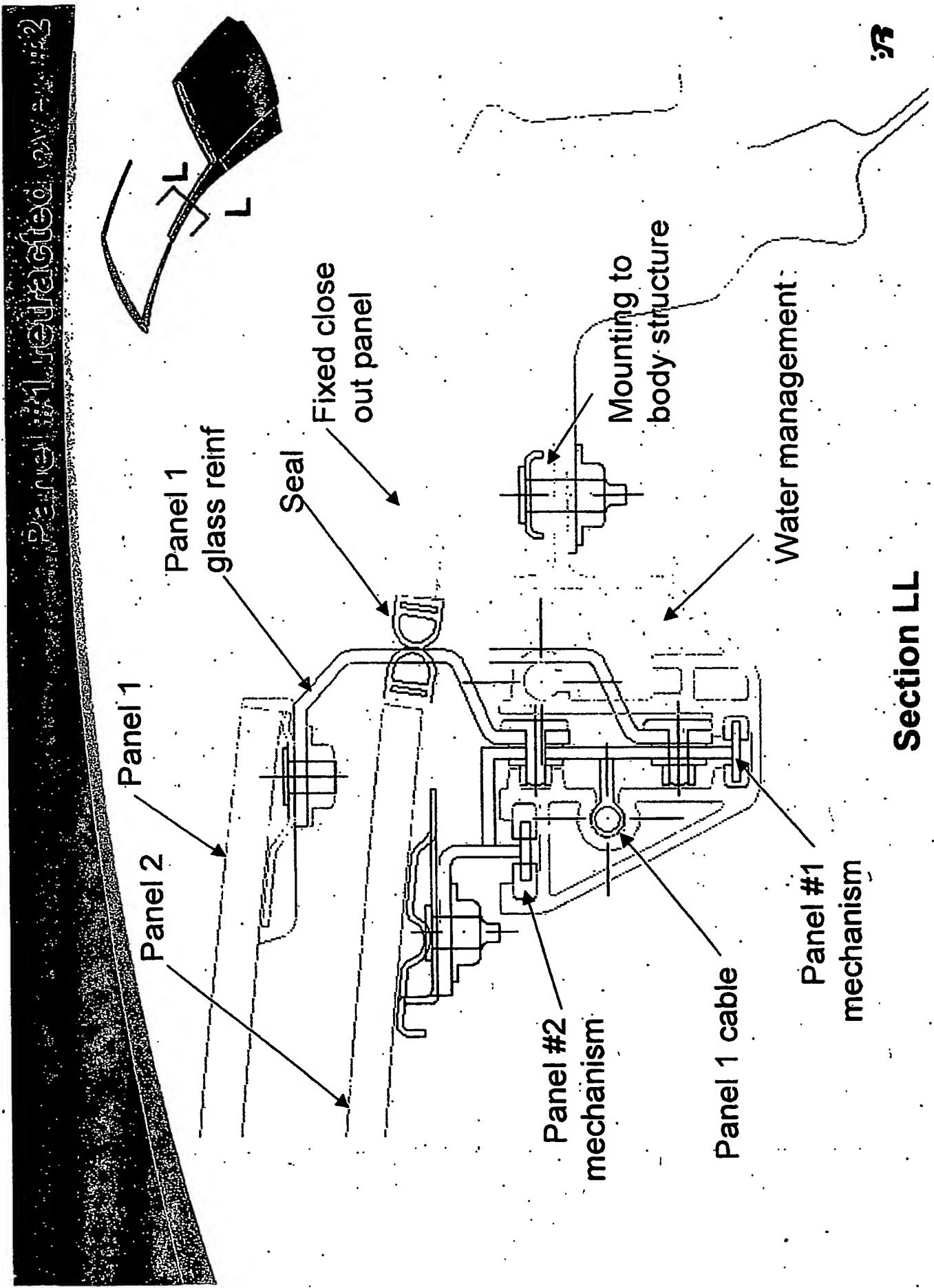
Limited or no back seating

Coupes only
Hydraulically driven *INTIER*

Double click on car for top kinematics



Section LL



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